7. Appendix E: Economic Development & Cost Data

Economic Development Assumptions

Estimates for Job Creation and Tax Revenue as a Result of the Plan are based on the following assumptions:

- Taxes are at standard Washington, D.C. rates
- 25% of residential proposed households would be new to the District
- Average retail sales would be \$250/foot/year.
- Average residential rent is \$1,775 per month.
- Buyers/renters will be spend 30% of their income on housing.
- Average income level is \$65K per household.
- 80% of household income is subject to taxes.
- Average monthly rent is \$170 for parking spaces.
- Cap rate is 9.5%.
- Annual full-time equivalent wages & benefits for a construction related job is \$54,000, and 50% of the TDC for all construction will go to salaries and wages.

Infrastructure Cost Estimates Southwest Waterfront Development Plan

| · | | |
|--|----------------|-------------|
| Transportation Related Work (15% Contingency) | | |
| DESCRIPTION | CO | ST |
| Demolish Water Street | | \$846,981 |
| Demolish Surface Parking Lots | | \$2,311,889 |
| Improve Main Avenue as an Urban Boulevard | | \$1,900,260 |
| Maine Avenue Landscaping | | \$437,060 |
| New Traffic Signals | | \$350,000 |
| - | TOTAL | \$5,846,189 |
| Public Open Space Related Work (15% Contingenc | у) | |
| DESCRIPTION | CC | ST |
| Promenade | | |
| Park/Promenade Improvement (North Side) f | rom 4th to 6th | \$245 295 |

| Promenade | |
|---|-------------|
| Park/Promenade Improvement (North Side) from 4th to 6th | \$245,295 |
| Landscaping/Pedestrian Improvement (North Side) from 4th to 6th | \$96,600 |
| Paving for Emergency Vehicles | \$834,199 |
| TOTAL | \$1,176,094 |
| Street-End Parks Park Surfacing/Landscaping | \$1,475,000 |
| New Cul-De-Sac Access Roads Between 7th and 9th | \$1,635,944 |
| TOTAL | \$3,110,944 |
| Market Square Park | |
| Park Curfacinal and coning | ቀ2 በበበ በበበ |

| narnot oquare r ark | |
|---|-------------|
| Park Surfacing/Landscaping | \$3,000,000 |
| New Access Road and Plaza South of Fish Market | \$519,432 |
| TOTAL | \$3,519,432 |
| Civic Park | |
| Park Surfacing/Landscaping | \$5,500,000 |
| Below-grade Parking (Residual Land Value) | \$2,160,000 |
| Reconfigure Waterfront Access Roads South of M Street | \$1,406,450 |
| TOTAL | \$9,066,450 |

| Utility Projects (25% Contingency) | | |
|---|-------|-------------|
| DESCRIPTION | CC | OST |
| Relocation of Water Lines on Maine Avenue | | \$805,500 |
| Relocation of Sewer Lines on Maine Avenue | | \$668,250 |
| Relocation of Natural Gas Lines on Maine Avenue | | \$222,150 |
| Relocation of Electrical Lines on Maine Avenue | | |
| | TOTAL | \$1,695,900 |

Summary of Costs for the Southwest Waterfront Development Plan

| Domolish Water Street | | | | | | | | 5 | | | | | | | |
|-----------------------------|-----------------|-----------|--------|-------------------|----------|-------|------------|--------------------------|-------------------------------|------------------|------------|--------------|--------------|-----------|-----------------|
| Demolish Water Street | Unit | Estimate | | Unit Price | | Total | | Parking Lot Opposite Ch | annel Inn Unit | Estimate | | Unit Price | | Total | |
| Connector Pavement | CYD | Estillate | 6.259 | | 30.00 | | 187.770.00 | l londroil | LF | Estimate | 1272 | | 5.00 | | 0.000.00 |
| Curb and Gutter | LF | | 7.082 | - | 6.00 | | 42.492.00 | Handrail | | | 12/2 | Ф | 5.00 | \$ \$ | 6,360.00 |
| Sidewalk | SQYD | | 7.871 | | 8.00 | | 62.968.00 | Retaining Wall and Colum | | | 8268 | Ф | 8.00 | - | 66.144.00 |
| Tree and Stub | Each | | 184 | | 500.00 | | 92,000.00 | Stem | SF SF | | | | | | , |
| Borrow Backfill | CYD | | 8,329 | | 25.00 | | 208,225.00 | Footing | | | 3816 | | 8.00 | | 30,528.00 |
| | SQYD | | | | | | | Asphalt | SF | | 1970 | | 30.00 | | 59,100.00 |
| Seed and Sod | | | 25,760 | | 5.00 | | 128,800.00 | Borrow Backfill | CYD | | 5423 | | 25.00 | | 135,575.00 |
| Light Poles | Each | | 13 | | 250.00 | | 3,250.00 | Sod and Seed | SYD | | 4068 | | 10.00 | | 40,680.00 |
| Parking Meters | Lump Sum | | . 1 | | 3,000.00 | | 3,000.00 | Light Poles | Lump Sum | | 1 | \$ | 5,000.00 | | 5,000.00 |
| Basin and Connect Pipes | Each | | 16 | \$ | 500.00 | | 8,000.00 | | | | | | | \$ | 343,387.00 |
| | | | | | | \$ | 736,505.00 | | | | | 15 Conting | gency | \$ | 51,508.05 |
| | | | | 15 Conting | jency | \$ | 110,475.75 | | | | | Total | | \$ | 394,895.05 |
| | | | | Total | | \$ | 846,980.75 | | | | | | | | |
| | | | | | | | | Parking Lot Opposite Ga | | | | | | | |
| | | | | | | | | | Unit | Estimate | | Unit Price | | Total | |
| Demolish Parking Structure | es | | | | | | | Asphalt | SF | | 4775 | | 30.00 | | 143,250.00 |
| | | | | | | | | Borrow Backfill | CYD | | 5412 | | 25.00 | \$ | 135,300.00 |
| Parking Lot Opposite Philli | ps is 2 Levels | | | | | | | Sod and Seed | SYD | | 9551 | \$ | 10.00 | \$ | 95,510.00 |
| | Unit | Estimate | | Unit Price | | Total | | Light Poles | Lump Sum | | 1 | \$ | 7,000.00 | \$ | 7,000.00 |
| Handrail | LF | | 878 | \$ | 5.00 | \$ | 4,390.00 | | | | | | | \$ | 381,060.00 |
| Retaining Wall and Columns | | | | | | \$ | - | | | | | 15 Conting | gency | \$ | 57,159.00 |
| Stem | SF | | 13609 | \$ | 8.00 | \$ | 108,872.00 | | | | | Total | | \$ | 438,219.00 |
| Footing | SF | | 3951 | \$ | 8.00 | \$ | 31,608.00 | | | | | | | | |
| Top Slab | SF | | 23374 | \$ | 6.00 | \$ | 140,244.00 | | | | | | | | |
| Columns | Each | | 19 | \$ | 1,000.00 | \$ | 19,000.00 | | | | | Total for a | all Parking | \$ | 2,311,888.70 |
| 1st Level Asphalt | CYD | | 1299 | \$ | 30.00 | \$ | 38,970.00 | | | | | | • | | |
| Borrow Backfill | CYD | | 8657 | ` \$ | 25.00 | \$ | 216,425.00 | Improve/Upgrade Maine | Ave (Urban Boule | vard) | | | | | |
| Sod and Seed | SYD | | 2681 | \$ | 10.00 | \$ | 26,810.00 | Improvements include: | Ave (orbair boule | vara) | | | | | |
| Light Poles | Lump Sum | | 1 | \$ | 5,000.00 | | 5,000.00 | improvements molude. | Resurface Wi | BI | | | | | |
| -g | | | | * | -, | \$ | 591,319.00 | | Widen media | | ndecan | | | | |
| | | | | 15 Conting | iencv | \$ | 88.697.85 | | Widen EBL by | | | | | | |
| | | | | Total | ,, | Š | 680,016.85 | | Demolish EBI | | | | | | |
| | | | | | | • | 000,010.00 | | Electrical Wor | | u 50u i | Willia top o | JII | | |
| Parking Lot Opposite Zanz | ihar and Hogati | 06 | | | | | | | Build 12' bike | | | | | | |
| . and g Lot Opposite Zanz | Unit | Estimate | | Unit Price | | Total | | | Provide drain | | nents (| excluding of | ampley utili | ty work) | |
| Handrail | LF | Louinate | 790 | | 5.00 | | 3,950.00 | | Tree Planting | | 1101110 (1 | choluding C | mpiez utili | ty WOIN) | |
| Retaining Wall and Columns | | | 730 | Ψ | 3.00 | S S | - | | rice Flanting | | | | | | |
| Stem | SF | | 22152 | · • | 8.00 | - | 177.216.00 | Cost: | The Coope of | work obove i | | alant to rob | uilding holf | of the | entire pavement |
| Footing | SF | | 5112 | | 8.00 | | 40.896.00 | COST: | | | s equiv | aleni io 160 | unumy nan | or trie 6 | mine pavement |
| Asphalt | SF SF | | 2721 | | 30.00 | | 81,630.00 | | Length = 306 Width = 36 fe | | | | | | |
| Aspnait Borrow Backfill | CYD | | 13108 | | 25.00 | | 327,700.00 | | | | | | | | |
| | SYD | | | | | | | | SQYD = 1224 | ŧU | | | | | |
| Sod and Seed | | | 5618 | | 10.00 | | 56,180.00 | | 11-2 | Fallmat | | Harte Bar | | T-1-1 | |
| Light Poles | Lump Sum | | 1 | \$ | 7,000.00 | | 7,000.00 | | Unit | Estimate | | Unit Price | | Total | |
| | | | | | | \$ | 694,572.00 | | SQYD | | 12,240 | \$ | 135.00 | | 1,652,400.00 |
| | | | | 15 Conting | jency | \$ | 104,185.80 | | | | | | | \$ | 1,652,400.00 |
| | | | | Total | | \$ | 798,757.80 | | | | | | ingencies | | 247,860.00 |
| | | | | | | | | | | | | Total | | \$ | 1,900,260.00 |

Demolition and Upgrade Costs

Natural Gas

| Item | Unit | Estimate | U | nit Price | | Total |
|-----------------------|-------------------------------|----------|----|------------|----|---------|
| 8-inch HDPE | LF | 3,600 | \$ | 35.00 | \$ | 126,000 |
| Smaller Service Lines | LF | 500 | \$ | 25.00 | \$ | 12,500 |
| 8-inch Valves | each | 3 | \$ | 3,000 | \$ | 9,000 |
| Water Traps | each | 3 | \$ | 200 | \$ | 600 |
| Contigency (15%) | | | | | | 37,025 |
| | | | | Subtotal | \$ | 185,125 |
| | | | De | sign (10%) | \$ | 18,513 |
| | Construction Management (10%) | | | | | 18,513 |
| | | | | Total | \$ | 222,150 |

Potable Water

| Item | Unit | Estimate | U | nit Price | Total |
|---------------------|------|----------------|------|------------|---------------|
| 12-inch Main | LF | 3,600 | \$ | 75.00 | \$ 270,000 |
| 8-Inch Main | LF | 1,000 | \$ | 55.00 | \$ 55,000 |
| 4-inch Main | LF | 500 | \$ | 45.00 | \$ 22,500 |
| Gate Valves | each | 50 | \$ | 750.00 | \$ 37,500 |
| Fire Hydrant | each | 12 | \$ | 5,000 | \$ 60,000 |
| Bituminous pavement | LF | 4,600 | \$ | 20 | \$ 92,000 |
| Contigency (25%) | | | | | 134,250 |
| | | | | Subtotal | \$ 671,250 |
| | | | De | sign (10%) | \$ 67,125 |
| | Con | struction Mana | agen | nent (10%) | \$ 67,125 |
| | | | | Total | \$ 805,500 |

Sanitary Sewer

| 8-Inch Gravity | LF | 1,300 | \$ | 85.00 | \$ | 110,500 | |
|------------------|--------|-------------------------------|----|-------------|----|---------|--|
| 4-inch Gravity | LF | 1,000 | \$ | 75.00 | \$ | 75,000 | |
| Manholes | each | 12 | \$ | 2,500.00 | \$ | 30,000 | |
| Deep Excavations | LF | 1,500 | \$ | 20 | \$ | 30,000 | |
| Contigency (25%) | | | | | | 111,375 | |
| | | | | Subtotal | \$ | 556,875 | |
| | | | De | esign (10%) | \$ | 55,688 | |
| | Consti | Construction Management (10%) | | | | | |
| | | | | Total | \$ | 668,250 | |

Estimate Unit Price

2,000 \$ 100.00 \$

Total

Unit

| Parks | | |
|--|-----------|-------------|
| Civic Park at Site 6 | SF/Stalls | |
| DESCRIPTION | | |
| Development of 2.5 acre park (\$50/SF) | 109,000 | \$5,500,000 |
| 240 Stall Below-grade Parking Garage ((\$9,000) residual land value/space) | 240 | \$2,160,000 |
| | TOTAL | \$7,660,000 |
| Market Square Park | | |
| Development of 75,000 sf park (\$40 additional/SF) | 75,000 | \$3,000,000 |
| | TOTAL | \$3,000,000 |
| Street-End Parks | | |
| 7th Street (\$25 additional/SF)* | 24,000 | \$600,000 |
| 9th Street (\$25 additional/SF)* | 22,000 | \$550,000 |
| 6th Street (\$25 additional/SF)* | 13,000 | \$325,000 |
| | TOTAL | \$1,475,000 |

^{*} Some costs associated with Street-End Parks accounted for in transportation costs

Utilities and Parks Costs

| Build New Cul-De-Sac Access | Roads at 9th, 7th, and 6th AREAS 9th Street 7th Street | | ors Street/Connecto | _ | Access between Sites 5 and 6 | Length = 340 f | ft | | | |
|--|--|-----------------------------|-------------------------------------|---|-------------------------------------|-------------------|--------------------|--|-------------|---|
| Up to Maine Ave | | 2,600 | 5,200 | | | Width = 130 ft | | | | |
| Maine Ave to Cul-De-Sac | 8.880 | 9,000 | 7,500 | | | Unit | Estimate | Unit Price | Total | |
| Cul-De-Sac | 10,760 | 10,400 | 8,640 | | | SQYD | 4,911 | \$ 100.00 | | 491,100.00 |
| Total (SQFT) | 34.140 | 32.000 | 21,340 | | | 3010 | 4,511 | φ 100.00 | | 491,100.00 491,100.00 |
| rotal (our r) | 04,140 | 02,000 | 21,040 | | | | | 15% Contingenc | | 73,665.00 |
| Unit Cost = \$14.50 for Mainline | | | | | | | | Sub Total | | 564,765.00 |
| Unit Cost = \$15.00 for Cul-De-S | Sac | | | | | | | oub rotui | • | 004,100.00 |
| Add access road between 7th | and 9th street = 9,600 SQI | FT | | | | | | Total | \$ 1, | 612,347.50 |
| | Area (FTSQ) | Cost | | | | | | | | |
| Cost | Mainline Cul-De | | | e-Sac | Maine Avenue Landscaping | | | | | |
| 9th Street | 23,380 | 10,760 | \$339,010 | \$161,400 | | | 10 Percent of A- | 2 (Alt-2) = | \$ | 380,052.00 |
| 7th Street 6th Street | 21,600 | 10,400 | \$313,200 | \$156,000 | | | | | | _ |
| Access Rd b/w 7th and 9th | 12,700 9,600 N/ A | 8,640 | \$184,150 \$139,200 N/A | \$129,600 | | | | 15 % Contingen | | 57,007.80 |
| Sub-Total | 3,000 14/ | | \$975,560 | \$447,000 | | | | | \$ | 437,059.80 |
| Sub-Total | | | \$975,500 | \$44 <i>1</i> ,000 | | | | | | |
| | | | | \$1,422,560 | Park/Promenade Improvement | (North of M) From | n 4th to 6th Stree | 2 † | | |
| | 15% Co | ontingencies | | \$213,384 | Tanvi romenade improvement | Unit | Estimate | | Total | |
| | Total | Ü | | \$1,635,944 | | SQYD | 2,133 | \$ 100.00 | | 213,300.00 |
| | | | | | | | | | | 213,300.00 |
| | | | | | | | | | | |
| | | | | | | | | 15% Contingenc | | 31,995.00 |
| New Access Road and Plaza S | | | | | | | | 15% Contingenc | | 31,995.00 |
| New Access Road and Plaza S | Length = 600 ft | | | | | | | 15% Contingenc | \$ | 31,995.00 245,295.00 |
| New Access Road and Plaza S | | | | | | | | · · | \$ | · |
| New Access Road and Plaza S | Length = 600 ft Width = 24 ft | te Unit I | Price Tota | al | Landacene/Pedectrien Improve | oment (Nevth of N | I) From 4th to 6th | Total | \$ | · |
| | Length = 600 ft Width = 24 ft Unit Estima | | | | Landscape/Pedestrian Improve | | | Total | \$ | · |
| Acces Road | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ | Price Tota 130.00 \$ 80.00 \$ | 208,000.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total <u>1</u> Unit Price | \$ \$ | 245,295.00 |
| | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ | 130.00 \$ | | Landscape/Pedestrian Improve | | | Total | \$ \$ Total | 245,295.00 84,000.00 |
| Acces Road Landscaping at | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ | 130.00 \$ | 208,000.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total L Unit Price \$ 105.00 | \$ Total \$ | 245,295.00 84,000.00 84,000.00 |
| Acces Road Landscaping at | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ 3,046 \$ | 130.00 \$ 80.00 \$ | 208,000.00 243,680.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total Unit Price \$ 105.00 15% Contingence | \$ | 245,295.00 84,000.00 84,000.00 12,600.00 |
| Acces Road Landscaping at | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ 3,046 \$ | 130.00 \$ 80.00 \$ \$ Contingenc \$ | 208,000.00 243,680.00 451,680.00 | <u>Landscape/Pedestrian Improve</u> | Unit | Estimate | Total L Unit Price \$ 105.00 | \$ Total \$ | 245,295.00 84,000.00 84,000.00 |
| Acces Road Landscaping at | Length = 600 ft Width = 24 ft Unit Estima SQYD | 1,600 \$ 3,046 \$ | 130.00 \$ 80.00 \$ \$ Contingenc \$ | 208,000.00 243,680.00 451,680.00 67,752.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total Unit Price \$ 105.00 15% Contingence | \$ | 245,295.00 84,000.00 84,000.00 12,600.00 |
| Acces Road Landscaping at the Loop | Length = 600 ft Width = 24 ft Unit Estima SQYD SQYD | 1,600 \$ 3,046 \$ | 130.00 \$ 80.00 \$ \$ Contingenc \$ | 208,000.00 243,680.00 451,680.00 67,752.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total Unit Price \$ 105.00 15% Contingence | \$ | 245,295.00 84,000.00 84,000.00 12,600.00 |
| Acces Road Landscaping at | Length = 600 ft Width = 24 ft Unit Estima SQYD SQYD | 1,600 \$ 3,046 \$ 15% Sub 7 | 130.00 \$ 80.00 \$ \$ Contingenc \$ | 208,000.00 243,680.00 451,680.00 67,752.00 519,432.00 | Landscape/Pedestrian Improve | Unit | Estimate | Total Unit Price \$ 105.00 15% Contingence | \$ | 245,295.00 84,000.00 84,000.00 12,600.00 |

\$ 725,390.00

\$ 725,390.00

\$ 834,198.50

15% Contingenc \$ 108,808.50

New Street and Sidewalk Costs

SQYD

4,267

\$ 170.00

Total